

# METHOD FOR DETERMINING GEOGRAPHICAL POSITION OF RECEIVER WITH COMMON-FREQUENCY BROADCASTING NETWORK AND CIRCUIT APPARATUS THEREOF

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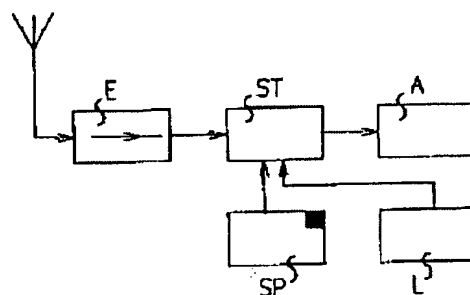
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## Zusammenfassung von JP6194437

**PURPOSE:** To locate a vehicle having a receiver inexpensively by forming a beat frequency from two different individual carrier frequencies, finding a phase difference between two or more received transmitters, and calculating the position of the receiver. **CONSTITUTION:** In a receiver E in relation to a digital audio broadcasting method, a beat frequency is formed by adding respective two adjoining carrier frequencies. A control unit ST finds a phase difference  $\Delta \phi$  of the beat frequency so as to code generation of different individual carrier frequencies and these time series. When a transmitter is identified by this information, an address of a storage SP is prescribed according to it so as to read the information such as the location of the transmitter stored in a data sentence characteristic to the transmitter. Secondly, an accurate position is calculated from the phase difference  $\Delta \phi$  and a general position by a phase-comparison hyperbolic system by the ST. This value is displayed on a display part A. A map of each scale can be displayed on the display part A. The data necessary for it is read from a mass storage device, for example, the CD via a reader L.



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